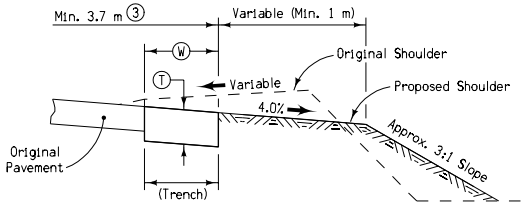
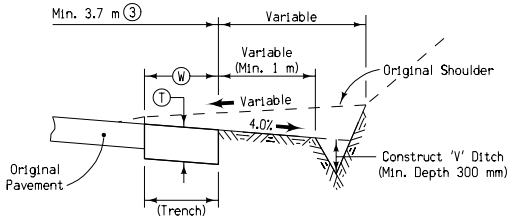
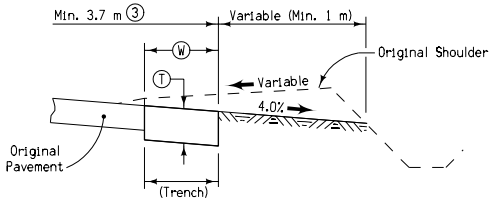


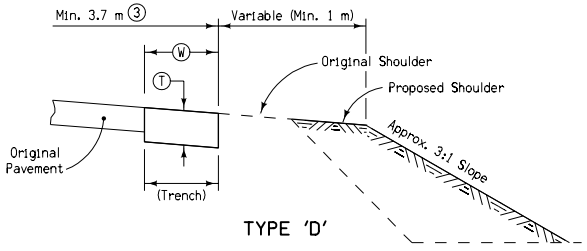

TYPE 'A'




TYPE 'B'

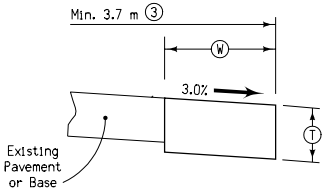



TYPE 'C'

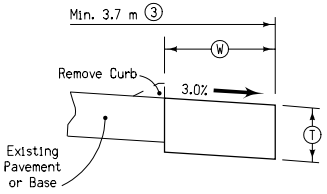



TYPE 'D'

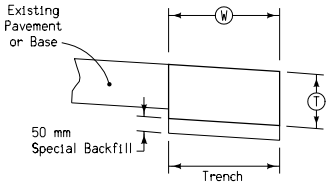
TYPICAL DETAILS OF SHOULDERS FOR PAVEMENT WIDENING




HOT MIX ASPHALT
WIDENING ON EXISTING
PAVEMENT WITHOUT CURB




HOT MIX ASPHALT
WIDENING ON EXISTING
PAVEMENT WITH CURB




DETAILS OF OPTIONAL
PLACEMENT OF SPECIAL BACKFILL

GENERAL NOTES:

'W' and 'T' shall be as specified as part of the individual project plans. Dimensions may vary for superelevated curves or at locations specifically designated by the Engineer.

Any asphalt materials excavated shall be handled as detailed elsewhere in the project plans.

Special shaping of widening units through bridge approach sections shall be done at the direction of the Engineer.

Curb removal details hereon are based on removal by grinding. Where other methods of removal are allowed, they shall be accomplished according to Section 2514 of the Standard Specifications.

Excavation in excess of that indicated shall be considered incidental to other work on the project.

Special Backfill, as indicated, shall be placed only at locations where specifically required by the Engineer. Any such Special Backfill placed shall be paid for as "Extra Work" as per Article 1109.03 of the Standard Specifications.

① Estimated at 2325 kilograms per cubic meter.

② Estimated for two (2) applications of tack coat at 0.2 liters per square meter. Priming of subgrade or finished base is not required.

③ Minimum surface dimension is based on accommodating 80 millimeters of resurfacing. Where thickness other than 80 millimeters is provided, the surface width should be modified appropriately.

④ Quantities indicated are for design purposes and may be adjusted at time of construction when so directed by the Engineer. Quantities listed are for two sides per station.

DESIGN QUANTITIES FOR PAVEMENT WIDENING ④

| W m | | T 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.3 | HMA Base, Mg ① | 27.9 | 29.3 | 30.7 | 32.1 | 33.5 | 34.9 | 36.3 | 37.7 | 39.1 |
| | Tack Coat, L ② | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 |
| | Trench Excavation, $m^3$ | 12.0 | 12.6 | 13.2 | 13.8 | 14.4 | 15.0 | 15.6 | 16.2 | 16.8 |
| 0.6 | HMA Base, Mg ① | 55.8 | 58.6 | 61.4 | 64.2 | 67.0 | 69.8 | 72.5 | 75.3 | 78.1 |
| | Tack Coat, L ② | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 |
| | Trench Excavation, $m^3$ | 24.0 | 25.2 | 26.4 | 27.6 | 28.8 | 30.0 | 31.2 | 32.4 | 33.6 |
| 0.9 | HMA Base, Mg ① | 83.7 | 87.9 | 92.1 | 96.3 | 100.4 | 104.6 | 108.8 | 113.0 | 117.2 |
| | Tack Coat, L ② | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 |
| | Trench Excavation, $m^3$ | 36.0 | 37.8 | 39.6 | 41.4 | 43.2 | 45.0 | 46.8 | 48.6 | 50.4 |
| 1.2 | HMA Base, Mg ① | 111.6 | 117.2 | 122.8 | 128.3 | 133.9 | 139.5 | 145.1 | 150.7 | 156.2 |
| | Tack Coat, L ② | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 |
| | Trench Excavation, $m^3$ | 48.0 | 50.4 | 52.8 | 55.2 | 57.6 | 60.0 | 62.4 | 64.8 | 67.2 |

All dimensions given in millimeters unless noted.

M METRIC VERSION

Iowa Department of Transportation
*Highway Division*

**STANDARD ROAD PLAN** | **RG-8**

REVISION: Changed ACC to HMA

REVISION NO. 12

REVISION DATE 10-02-01

William J. Stein
APPROVED BY DESIGN METHODS ENGINEER

HOT MIX ASPHALT
BASE WIDENING